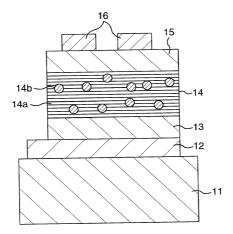
FIG. 1



## FIG. 2

4,4'-bis(N-(1-naphthyl)-N-phenyl-amino)biphenyl ( $\alpha$ -NPB)

 $\begin{array}{c} \mathsf{tris}(2\text{-phenylpyridine}) \mathsf{iridium} \\ (\mathsf{Ir}(\mathsf{ppy})_3) \end{array}$ 

2,3,7,8,12,13,17,18-oclaethyl -21H,23H-porphine platinum (PtOEP)

tris-(8-hydroxy-quinoline)aluminum (ALQ)

4,4'-N,N'-dicarbozole-biphenyl (CBP)

2,9-dimethyl-4,7-diphenyl-phenanthroline (BCP)

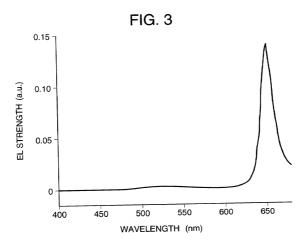


FIG. 4

Al(150nm)

LiF(0.6nm)

ALQ(240nm)

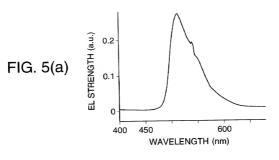
BCP(6nm)

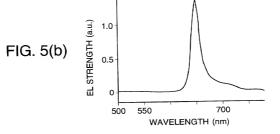
CBP:6%lr(ppy)<sub>3</sub>(20nm)

α-NPB(40nm)

ITO(140nm)

ALKALI-FREE GLASS
CORNING 1737
(0.7mm)





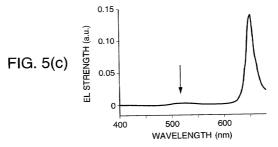


FIG. 6

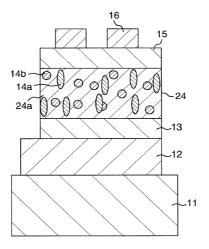


FIG. 7

